

The above-described polynucleotide comprising a DNA sequence which codes for a protein GLUT4V85M is, in a preferred embodiment, suitable for replicating said polynucleotide in a yeast cell or for expressing the part of the polynucleotide, which encodes the protein GLUT4V85M, in a yeast cell in order to produce to give the protein GLUT 4 V85M protein. A yeast cell from *Saccharomyces cerevisiae* is particularly suitable. For replication and expression in a yeast cell, the polynucleotide comprising a DNA sequence which encodes calls for a protein GLUT4V85M protein is present in the form of a yeast vector. The polynucleotide region coding for the GLUT4V85M protein may be operationally linked to a yeast cell-specific promoter promoter such as, for example, the ADH promoter promoter (alcohol dehydrogenase promoter promoter) or the HXT7 promoter promoter (hexose-transporter promoter). The yeast sectors are a group of vectors which were was developed for cloning of DNA in yeasts.

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Starting at page 3, line 32

Page 4: delete paragraphs 1-5 and replace them with:

The invention further extends ~~furthermore relates~~ to a ~~yeast cell from~~ *Saccharomyces cerevisiae* yeast cell in which all glucose transporters are no longer functional (=hxt (-)) and which contains no functional Erg4 protein. Such a yeast cell is preferably a yeast cell deposited as *Saccharomyces cerevisiae* DSM 15187 with the DSMZ (Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Mascheroder Weg 1b, D-38124 Braunschweig Germany 16, 38124 Brunswick, Germany), an International Depository Authority (IDA) as established under the Budapest Treaty on the International Recognition of the Deposit of Microorganisms for the Purposes of Patent Procedure, on September 10, 2002.

The invention also extends ~~relates~~ to a yeast cell in which all glucose transporters are no longer functional and which contains no functional Fgy1 and no functional Erg4 protein. The lack of a functional ~~an~~ Erg4 protein and a functional ~~or of an~~ Fgy1 protein may be attributed in particular to an interruption of the corresponding coding genome sections or to a partial or complete removal of said coding genome sections. A particular example of a yeast cell of the present invention ~~Preference is given to using as yeast cell~~ which contains no functional glucose